

Notice of Allowability

Application No.

10/714,907

Examiner

Sudhanshu C. Pathak

Applicant(s)

DUVAUT ET AL.

Art Unit

2611

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to March 22nd, 2007.
2. ☒ The allowed claim(s) is/are 2, 4-8 and re-numbered as claims 1-6 respectively.
3. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 - a) ☐ All b) ☐ Some* c) ☐ None of the:
 1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

* Certified copies not received: _____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.

THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
 5. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
 - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
 - 1) ☐ hereto or 2) ☐ to Paper No./Mail Date _____.
 - (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

- | | |
|--|---|
| 1. <input type="checkbox"/> Notice of References Cited (PTO-892) | 5. <input type="checkbox"/> Notice of Informal Patent Application |
| 2. <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 6. <input type="checkbox"/> Interview Summary (PTO-413),
Paper No./Mail Date _____ |
| 3. <input type="checkbox"/> Information Disclosure Statements (PTO/SB/08),
Paper No./Mail Date _____ | 7. <input checked="" type="checkbox"/> Examiner's Amendment/Comment |
| 4. <input type="checkbox"/> Examiner's Comment Regarding Requirement for Deposit
of Biological Material | 8. <input checked="" type="checkbox"/> Examiner's Statement of Reasons for Allowance |
| | 9. <input type="checkbox"/> Other _____ |

DETAILED ACTION

1. Claims 2 & 4-8 are pending in the application.
2. Claims 1 & 3 have been canceled.

EXAMINER'S AMENDMENT

3. A examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it **MUST** be submitted no later than the payment of the issue fee.
4. In order to avoid a 112 rejection, the claims have been amended as follows:
 - In Claim 2, lines 7-8 **replace** "cost function = $2 \cdot (\text{dsrate}(2) - \text{dsrate}(1)) - \text{dsrate}(1) + (\text{usrate}(2) - \text{usrate}(1)) / \text{usrate}(1)$ "
with
"cost function = $2 \cdot (\text{dsrate}(2) - \text{dsrate}(1)) / \text{dsrate}(1) + (\text{usrate}(2) - \text{usrate}(1)) / \text{usrate}(1)$ "
 - In Claim 5, lines 7 **replace** "... (fx103) -1.5]-3.5}- ;"
with
"... (fx10³)^{-1.5}]-3.5};"

Allowable Subject Matter

5. Claims 2 & 4-8 are allowed.
6. Claims 2 & 4-8 and re-numbered as claims 1-6 respectively are allowable over the prior art of record because the cited reference do not contain the specified limitation of a method of for selecting a spectral mask for use with a DSL system,

the method comprising: obtaining a weighted ratio of upstream rates and downstream rates; determining whether a cost function, based in part upon the weighted ratio, is greater than a predetermined value, wherein determining whether a cost function is greater than a predetermined value further comprises: determining a cost function according to the relation: $\text{cost function} = 2 * (\text{dsrate}(2) - \text{dsrate}(1)) / \text{dsrate}(1) + (\text{usrate}(2) - \text{usrate}(1)) / \text{usrate}(1)$, wherein dsrate(1) is the downstream rate of a first mask, dsrate(2) is the downstream rate of a second mask, usrate(1) is the upstream rate of the first mask and usrate(2) is the upstream rate of the second mask.; and selecting a spectral mask based in part upon the determination of whether the cost function is greater than a predetermined value.

Conclusion

7. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Sudhanshu C. Pathak whose telephone number is (571)-272-3038. The examiner can normally be reached on M-F: 9am-6pm.
If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Chieh M. Fan can be reached on (571)-272-3042.

The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Sudhanshu C. Pathak
Examiner
Art Unit 2611


CHIEH M. FAN
SUPERVISORY PATENT EXAMINER